

ABSTRACT

Generally spherical metal particles (1) consisting
5 essentially of single crystal grains, having a mean
particle size of 0.1 to 10 μm are surface coated with an
insulating or dielectric layer (2a or 2b) as by a spray
pyrolysis process, and the coated metal particles are
dispersed in a resin to form a composite magnetic or
10 dielectric material. The composite magnetic material is
highly insulating, easy to prepare, free of corrosion and
has improved high-frequency characteristics and
withstanding voltage. The composite dielectric material
has a high dielectric constant even at a reduced content of
15 dielectric. There are also provided a molding material,
powder compression molding material, paint, prepreg, and
substrate.